

NO:9, SEQUENCE ID NO:10, SEQUENCE ID NO:11, SEQUENCE ID NO:12, SEQUENCE ID NO:13, and SEQUENCE ID NO:14, and equivalent degenerate coding sequences thereof.

32. (Twice Amended). A recombinant expression system comprising an isolated and purified nucleic acid sequence having an open reading frame operably linked to a control sequence compatible with a desired host, wherein the nucleic acid sequence consists of a sequence selected from the group consisting of:

SEQ ID NO:1, SEQUENCE ID NO:2, SEQUENCE ID NO:3, SEQUENCE ID NO:4, SEQUENCE ID NO:5, SEQUENCE ID NO:6, SEQUENCE ID NO:7, SEQUENCE ID NO:8, SEQUENCE ID NO:9, SEQUENCE ID NO:10, SEQUENCE ID NO:11, SEQUENCE ID NO:12, SEQUENCE ID NO:13, and SEQUENCE ID NO:14, full complements of SEQ ID NO:1, SEQUENCE ID NO:2, SEQUENCE ID NO:3, SEQUENCE ID NO:4, SEQUENCE ID NO:5, SEQUENCE ID NO:6, SEQUENCE ID NO:7, SEQUENCE ID NO:8, SEQUENCE ID NO:9, SEQUENCE ID NO:10, SEQUENCE ID NO:11, SEQUENCE ID NO:12, SEQUENCE ID NO:13, and SEQUENCE ID NO:14, and equivalent degenerate coding sequences thereof.

34. (Amended) A method for producing a polypeptide comprising at least one epitope, said method comprising:

incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide consisting of an amino acid sequence selected from the group consisting of SEQUENCE ID NO:17, SEQUENCE ID NO:18, SEQUENCE ID NO:19, SEQUENCE ID NO:20, and SEQUENCE ID NO:21.

MARKED UP VERSION SHOWING CHANGES MADE:

Please amend claims 25, 32 and 34 as follows:

25. (Twice Amended). An isolated and purified polynucleotide [comprising] consisting of a sequence selected from the group consisting of: SEQ ID NO:1, SEQUENCE ID NO:2, SEQUENCE ID NO:3, SEQUENCE ID NO:4, SEQUENCE ID NO:5, SEQUENCE ID NO:6, SEQUENCE ID NO:7, SEQUENCE ID NO:8, SEQUENCE ID NO:9, SEQUENCE ID NO:10, SEQUENCE ID NO:11, SEQUENCE ID NO:12, SEQUENCE ID NO:13, and SEQUENCE ID NO:14, full complements of SEQ ID NO:1, SEQUENCE ID NO:2, SEQUENCE ID NO:3, SEQUENCE ID NO:4, SEQUENCE ID NO:5, SEQUENCE ID NO:6, SEQUENCE ID NO:7, SEQUENCE ID NO:8, SEQUENCE ID NO:9, SEQUENCE ID NO:10, SEQUENCE ID NO:11, SEQUENCE ID NO:12, SEQUENCE ID NO:13, and SEQUENCE ID NO:14, and equivalent degenerate coding sequences thereof.

32. (Twice Amended). A recombinant expression system comprising an isolated and purified nucleic acid sequence having an open reading frame operably linked to a control sequence compatible with a desired host, wherein the nucleic acid sequence consists of a sequence [is] selected from the group consisting of: SEQ ID NO:1, SEQUENCE ID NO:2, SEQUENCE ID NO:3, SEQUENCE ID NO:4, SEQUENCE ID NO:5, SEQUENCE ID NO:6, SEQUENCE ID NO:7, SEQUENCE ID NO:8, SEQUENCE ID NO:9, SEQUENCE ID NO:10, SEQUENCE ID NO:11, SEQUENCE ID NO:12, SEQUENCE ID NO:13, and SEQUENCE ID NO:14, full complements of SEQ ID NO:1, SEQUENCE ID NO:2, SEQUENCE ID NO:3, SEQUENCE ID NO:4, SEQUENCE ID NO:5, SEQUENCE ID NO:6, SEQUENCE ID NO:7, SEQUENCE ID NO:8, SEQUENCE ID NO:9, SEQUENCE ID NO:10, SEQUENCE ID NO:11, SEQUENCE ID NO:12, SEQUENCE ID NO:13, and SEQUENCE ID NO:14, and equivalent degenerate coding sequences thereof.

34. (Amended) A method for producing a polypeptide comprising at least one epitope, said method comprising:

incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide [having] consisting of an amino acid sequence selected from the group consisting of SEQUENCE ID NO:17, SEQUENCE ID NO:18, SEQUENCE ID NO:19, SEQUENCE ID NO:20, and SEQUENCE ID NO:21.